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WHAT IS CLAIMED IS:

1. A fiber produced from a composition comprising at least one hydrogenated block copolymer and, optionally, at least one other polymer selected from the group consisting of a reactive tailored liquid polyurethane, an elastomeric or sulfonated ethylene/vinyl aromatic interpolymer, an elastomeric ethylene/C₃-C₂₀ α-olefin interpolymer, an C₃-C₂₀ α-olefin/conjugated diene interpolymer, an elastic polypropylene polymer, an enhanced polypropylene polymer, an elastomeric thermoplastic polyurethane, an elastic polyester, a partially hydrogenated block copolymer, an elastic polyamide, a hydroxyl functionalized polyether (or polyetheramine), a styrene/conjugated diene interpolymer, and an elastomeric metallocene-catalyzed synthetic polymer or a blend or formulated system thereof.

wherein the hydrogenated block copolymer is a substantially hydrogenated block copolymer characterized as having:

- a weight ratio of conjugated diene monomer unit to vinyl aromatic monomer unit before hydrogenation of greater than or equal to 60:40;
- ii) a weight average molecular weight ($M_{\rm m}$) before hydrogenation of from about 30,000 to about 150,000, wherein each vinyl aromatic monomer unit (a) has a weight average molecular weight, $Mw_{\rm a}$, of from about 5,000 to about 45,000 and each conjugated diene monomer unit (b) has a weight average molecular weight, $Mw_{\rm b}$, of from about 12,000 to about 110,000; and
- iii) a hydrogenation level such that each vinyl aromatic monomer unit block is hydrogenated to a level of greater than 90 percent and each conjugated diene monomer unit block is hydrogenated to a level of greater than 95 percent, as determined using UV-VIS spectrophotometry and proton NMR analysis.
 - 2. A composite having a nonwoven portion comprising the fiber of Claim 1.
- 3. The composite of Claim 2, which comprises leg gathers, leg bands, sidepanels or a waistband.
- A fabric, thread, filament, ribbon or fibrous web comprising the fiber of
 Claim 1.
 - 5. A nonwoven strip or ribbon comprising the fiber of Claim 1.
 - The fiber of Claim 1 wherein the fiber is monofilament, bicomponent or multicomponent.
 - 7. The fiber of Claim 1, wherein the fiber is surface treated or crosslinked.
 - A core/sheath structure comprising the fiber of Claim 1.

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- 9. A composite structure comprising the fiber of Claim 1.
- 10. An absorbent item comprising the fiber of Claim 1.
- 11. A nonwoven item comprising the fiber of Claim 1.
- 12. An apparel accessory item comprising the fiber of Claim 1.
- 5 13. The accessory item of Claim 12, wherein the item is a belt, sock, ribbon, headband, or hat.
 - 14. A woven or knitted item comprising the fiber of Claim 1.
 - 15. A carpet comprising the fiber of Claim 1.
 - 16. A diaper comprising the fiber of Claim 1.
 - 17. A incontinence pad comprising the fiber of Claim 1.
 - 18. A sanitary napkin comprising the fiber of Claim 1.
 - 19. A yarn comprising the fiber of Claim 1.
 - 20. A textile item comprising the fiber of Claim 1.
 - 21. The fiber of Claim 1, wherein fiber thickness is in the range of from about 0.1 micron to about 24 mils.
 - 22. The fiber of Claim1, wherein the at least one other polymeric material is a homogeneously branched ethylene polymer.
 - 23. The fiber of Claim 1, wherein the substantially hydrogenated block copolymer is a triblock having, before hydrogenation, two vinyl aromatic monomer unit blocks and one conjugated diene monomer unit block.
 - The fiber of Claim 1, wherein each vinyl aromatic monomer unit block has a weight average molecular weight less than or equal to 15,000.
 - 25. The fiber of Claim 1, wherein at least one of the vinyl aromatic monomer unit blocks comprises styrene.
- 25 26. The elastic article of Claim 1, wherein the conjugated diene monomer unit block is butadiene.
 - An elastic fiber produced from a composition comprising at least one substantially hydrogenated block copolymer, wherein the block polymer is characterized as having
- a weight ratio of conjugated diene monomer unit to vinyl aromatic monomer unit before hydrogenation of greater than or equal to 60:40;
 - ii) a viscosity at 0.1 rad/sec and 190°C, determined using parallel plate rheometry, defined by the inequality:

In viscosity at 0.1 rad/sec \leq (7.08 x 10⁻⁵)(M_w) + 7.89; and

iii) a hydrogenation level such that each vinyl aromatic monomer unit block is hydrogenated to a level of greater than 90 percent and each conjugated diene monomer

unit block is hydrogenated to a level of greater than 95 percent, as determined using UV-VIS spectrophotometry and proton NMR analysis.